

10/16/2015

Mr. Terry Taylor

Anderson Mulholland & Associates, Inc.

2700 Westchester Avenue

Suite 417

Purchase NY 10577

Project Name: BMS VI

Project #:

Workorder #: 1510223A


Dear Mr. Terry Taylor

The following report includes the data for the above referenced project for sample(s) received on 10/13/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker

Project Manager

WORK ORDER #: 1510223A

Work Order Summary

CLIENT: PHONE: FAX: DATE RECEIVED: DATE COMPLETED:	Mr. Terry Taylor Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577 (914) 251-0400 10/13/2015 10/16/2015	BILL TO: P.O. # PROJECT # CONTACT:	Accounts Payable Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577 BMS VI Brian Whittaker
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<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	B30-1101015	Modified TO-15 (5&20 ppbv)	3.7 "Hg	14.6 psi
02A	B30-2100915	Modified TO-15 (5&20 ppbv)	3.9 "Hg	14.7 psi
03A	B30-3101015	Modified TO-15 (5&20 ppbv)	4.3 "Hg	14.9 psi
04A	B30-4100915	Modified TO-15 (5&20 ppbv)	3.3 "Hg	14.6 psi
05A	B30-4D100915	Modified TO-15 (5&20 ppbv)	4.3 "Hg	15 psi
06A	B30-5100915	Modified TO-15 (5&20 ppbv)	4.7 "Hg	14.8 psi
07A	B42-1101015	Modified TO-15 (5&20 ppbv)	3.9 "Hg	14.7 psi
08A	B42-2101015	Modified TO-15 (5&20 ppbv)	3.7 "Hg	14.7 psi
09A	B42-3101015	Modified TO-15 (5&20 ppbv)	4.7 "Hg	14.8 psi
10A	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA
11A	CCV	Modified TO-15 (5&20 ppbv)	NA	NA

CERTIFIED BY:



Technical Director

DATE: 10/16/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc., certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95678
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
Anderson Mulholland & Associates, Inc.
Workorder# 1510223A

Nine 1 Liter Summa Canister (100% Certified) samples were received on October 13, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample B42-2101015 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds EPA METHOD TO-15 GC/MS

Client Sample ID: B30-1101015

Lab ID#: 1510223A-01A

No Detections Were Found.

Client Sample ID: B30-2100915

Lab ID#: 1510223A-02A

No Detections Were Found.

Client Sample ID: B30-3101015

Lab ID#: 1510223A-03A

No Detections Were Found.

Client Sample ID: B30-4100915

Lab ID#: 1510223A-04A

No Detections Were Found.

Client Sample ID: B30-4D100915

Lab ID#: 1510223A-05A

No Detections Were Found.

Client Sample ID: B30-5100915

Lab ID#: 1510223A-06A

No Detections Were Found.

Client Sample ID: B42-1101015

Lab ID#: 1510223A-07A

No Detections Were Found.

Client Sample ID: B42-2101015

Lab ID#: 1510223A-08A

No Detections Were Found.

Client Sample ID: B42-3101015

Lab ID#: 1510223A-09A

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: B42-3101015

Lab ID#: 1510223A-09A

No Detections Were Found.



Air Toxics

Client Sample ID: B30-1101015

Lab ID#: 1510223A-01A

EPA METHOD TO-15 GC/MS

File Name:	14101505	Date of Collection:	10/10/15 10:22:00 AM
Dil. Factor:	2.27	Date of Analysis:	10/15/15 01:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	110	Not Detected	150	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: B30-2100915

Lab ID#: 1510223A-02A

EPA METHOD TO-15 GC/MS

File Name:	14101506	Date of Collection:	10/9/15 3:40:00 PM
Dil. Factor:	2.30	Date of Analysis:	10/15/15 01:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	120	Not Detected	150	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: B30-3101015

Lab ID#: 1510223A-03A

EPA METHOD TO-15 GC/MS

File Name:	14101507	Date of Collection:	10/10/15 10:42:00 AM
Dil. Factor:	2.35	Date of Analysis:	10/15/15 02:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	120	Not Detected	150	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: B30-4100915

Lab ID#: 1510223A-04A

EPA METHOD TO-15 GC/MS

File Name:	14101508	Date of Collection:	10/9/15 12:31:00 PM
Dil. Factor:	2.24	Date of Analysis:	10/15/15 02:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	110	Not Detected	150	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: B30-4D100915

Lab ID#: 1510223A-05A

EPA METHOD TO-15 GC/MS

File Name:	14101509	Date of Collection:	10/9/15 12:31:00 PM
Dil. Factor:	2.36	Date of Analysis:	10/15/15 02:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	120	Not Detected	150	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: B30-5100915

Lab ID#: 1510223A-06A

EPA METHOD TO-15 GC/MS

File Name:	14101510	Date of Collection:	10/9/15 1:36:00 PM
Dil. Factor:	2.38	Date of Analysis:	10/15/15 03:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	120	Not Detected	160	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: B42-1101015

Lab ID#: 1510223A-07A

EPA METHOD TO-15 GC/MS

File Name:	14101511	Date of Collection: 10/10/15 11:31:00 AM
Dil. Factor:	2.30	Date of Analysis: 10/15/15 03:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	120	Not Detected	150	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: B42-2101015

Lab ID#: 1510223A-08A

EPA METHOD TO-15 GC/MS

File Name:	14101512	Date of Collection:	10/10/15 12:10:00 PM
Dil. Factor:	2.28	Date of Analysis:	10/15/15 03:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	110	Not Detected	150	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: B42-3101015

Lab ID#: 1510223A-09A

EPA METHOD TO-15 GC/MS

File Name:	14101513	Date of Collection:	10/10/15 12:32:00 PM
Dil. Factor:	2.38	Date of Analysis:	10/15/15 04:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	120	Not Detected	160	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1510223A-10A

EPA METHOD TO-15 GC/MS

File Name:	14101504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/15/15 01:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	50	Not Detected	66	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1510223A-11A

EPA METHOD TO-15 GC/MS

File Name:	14101503a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/15/15 12:37 PM

Compound	%Recovery
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Methanol	100
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Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130